



Development of a New Gas Compressor - Design of a Crankshaft and Strength Test by Means of FEM

by:

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Abstract:

The increasing design demands of machinery components since years further the quick spreading of the Finite-Elements-Method (FEM). Especially for complex components, such as a crankshaft, considerable advantages are resulting. Due to FEM the risk of over-dimensioning and under-dimensioning is decreased, thus saving material resp. expenses, without risking an increase of failure. Within the framework of a new development, a strength test of a crankshaft for a piston compressor was carried out in cooperation with the University of Dresden.